



**European
Unmanned
Vehicle
Systems
Association**

**Furthering The Introduction Of UAVs/ROA
Into Civil Managed Airspace**

UCARE PROGRAMME UPDATE

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FEDERATING & COORDINATING ACTION

Proposal
To
EC

Thematic Network Proposal

March 2001

EURO UVS submitted a proposal for the financing of a European Thematic Network (re: UAV Airworthiness & ATM) to the European Commission.

This proposal federated:

50 Corporate Participants - 12 countries

37 Observers - 12 countries (European & non-European)

July 2001

EURO UVS received a negative reply to its request for funding from the European Commission.

Sept 2001

Based on the consensus arrived at during the preparation of the network proposal, and encouraged by the participants & observers, EURO UVS decided to continue the initiative as a multi-national EURO UVS programme (UCARE).



UAVs: Concerted Actions for REgulations



OBJECTIVE

Develop recommendations with the aim to facilitate the establishment of rules & regulations allowing the introduction of civil/commercial & military UAVs/ROA into civil managed airspace, regardless of borders.

STRATEGY

Federate the international UAV community within a dedicated framework to create the required basis for issuing a consensual policy & competence standards.

PARTICULARITIES

- Dual (military, civil/commercial) inputs/use;
- Incorporates recommendations from Eurocontrol, FAA, JAA, NATO, WEAO and national CAAs;
- Can be tasked by Eurocontrol, FAA, JAA, NATO, WEAO and national CAAs to deal with Specific Tasks;
- Incorporates findings of national Working Groups;
- Represents principal UAV stakeholders;
- Financed by the Participants;
- Multi-national & intercontinental approach not dominated by a single country, company or type of UAV.





PARTICIPANTS

Corporate Entities

Industry, R&D organizations, organizations supplying services with or for UAVs), governmental entities (military & civil), industry associations, international organizations (military & civil, e.g. NATO, WEAO, Eurocontrol, FAA, JAA).

From

Australia, Austria, Canada, France, Germany, Italy, Israel, Japan, South Africa, Spain, Sweden, Switzerland, UK, USA

CONTRIBUTORS

Non-Corporate Entities

Representatives of military & civil gvmt organizations (incl. Min. of Def. agencies, departments, services), international military organizations (NATO & WEAO), national civil aviation authorities, international organizations e.g. DG Transport, Eurocontrol, FAA, JAA, International Federation of Airworthiness, universities & governmental R&D organizations, that can significantly contribute.

From

All countries



WHY THESE COUNTRIES?



Europe

France
Germany
Italy
Spain
Sweden
Switzerland
UK

- The EURO UVS Power-Base.
- The **driving force** behind UCARE.
- Significant national UAV industry.
- Desire to fly UAVs in **civil managed** airspace.

Israel

- Elbit is teamed with Thales Defense, UK
- Experience flying **military** UAVs

Far East

Australia
Japan

- Significant national UAV industry & **EURO UVS membership**.
- Experience flying UAVs for **commercial** purposes in **civil managed** airspace.
- Positive attitude of CASA Australia.

Africa

South Africa

- Significant national UAV industry & **EURO UVS membership**.
- Experience flying **military** UAVs for non-military purposes in **civil managed** airspace.

N. America

USA
Canada

- **Partnership** agreement with AUVSI.
- Significant national UAV industry & **EURO UVS membership**.
- Desire to fly UAVs in **civil managed** airspace.



WHAT ARE THE DELIVERABLES?

Consensual International Recommendations
Relative to a UAV Regulation Concept,
Technical Proposals, Publications, Web Site

WHO ELABORATE THE DELIVERABLES?

UCARE Participants

WITH INPUTS FROM WHO?

Participants, Contributors, national civil & military aviation
authorities, Eurocontrol, FAA, JAA, NATO & WEO

WHO FORMATS THE DELIVERABLES?

EURO UVS + UCARE Steering Group +
UCARE Steering Committees



HOW ARE THE DELIVERABLES ARRIVED AT?

- **National Working Groups & Multi-National Discussion Forums**
- **International Work & Discussion Forums on “restricted” web site**
- **Accomplishing Tasks & Sub-Tasks, Special Tasks, and Specific Tasks (by Participants & Contributors)**
- **Exchange of information between national Working Groups during recommendation formulation**
- **2 Yearly Work Meetings at RMA in Brussels, Belgium**
- **1 Yearly General Meeting in Paris, France
(back-to-back with EURO UVS’ yearly UAV conference)**
- **Publication of all recommendations on “open” UCARE web site**

Necessity: Free flow & wide dissemination of information



WHO RECEIVES THE DELIVERABLES?

**Eurocontrol
Joint Aviation Authorities (JAA)
FAA
National Military Authorities
National Civil Aviation Authorities
DG Transport NATO WEO
Participants & Contributors**

**Invited to join
UCARE
as
Contributors**

HOW ARE DELIVERABLES DISSEMINATED?

**By email to tasking authorities
EURO UVS & AUVSI Publications
EURO UVS & AUVSI Web Sites & Direct Emailing
EURO UVS & AUVSI Conferences**



- ## WEB SITE

- ## WORK MEETINGS

- ## Participation: Free

TASKS & SPECIAL TASKS

- ## SPECIFIC TASKS

- The authority tasking UCARE

GENERAL MEETING

- Travel, hotel, substance, time
- Participants & Contributors
- Meeting venue, logistics, substance & cocktails
- Sponsorship of the yearly UAV conference & exhibition by international UAV industry (see: www.euro-uvs.org)
- General Meeting & UAV conference delegate fees



Initially Suggested Core Group



OVERALL COORDINATOR = EURO UVS

National Coordinators

EURO UVS MEMBERS	Australia	Aerosonde, BAE Systems	←	To Be Ancd
	France & Spain	Dassault, EADS, EDT, INTA (Spain), Sagem, Thales (2)	←	EDT
	A & CH & D	Autoflug, BGT, EADS, EADS-Dornier, ESG, IABG, Limbach, RUAG Aerospace (CH), Schiebel (A), STN Atlas Elektronik	←	UAV-WG
	Japan	Fuji Heavy Industries, Kawada, Yamaha Motors, Ministry of Transport, Ministry of Agriculture-Aviation	←	Yamaha
	S. Africa	ATE, Kentron, Thales Advanced Engineering	←	ATE
	Sweden	Aerotech Telub, Civil Aviation Authority (LFV), Defense Materiel Admin. (FMV), Defense Research Inst. (FOI), Saab, Scandicraft	←	FMV/Saab
	UK & Israel	BAE Systems, Remote Group, Stasys, Thales Defense, UAV Engines Ltd, Elbit-Silver Arrow (IL)	←	UAVS
	USA	AAI Corp. ●, AeroVironment, BAI Aerosystems ●	←	AUVSI (ISG)
	USA	Adroit Systems ●, Boeing ●, General Atomics ●, Goodrich, Lockheed Martin ●, NASA, Northrop Grumman ●, NMSU	←	● Corporate AUVSI Members



Current Participants & Contributors

**JUNE
2002**

OVERALL COORDINATOR = EURO UVS

**National
Coordinators**

PARTICIPANTS	Australia	Aerosonde, BAE Systems	To Be Ancd	
	France & Spain	Blyenburgh & Co, CAC Systèmes, Dassault, EADS, EDT, INTA (ES), Sagem, Thales Airborne Systems, Thales Communications	EDT	
	A & CH & D & NL	BGT, EADS MABU, EADS-Dornier, ESG, Dutch Space (NL), RUAG Aerospace (CH), Schiebel (A), STN Atlas Elektronik	UAV-WG	
	Japan	Fuji Heavy Industries, Yamaha Motors, Japan UAV Association	Yamaha	
	South Africa	Armcor, ATE, Kentron, Thales Advanced Engineering	ATE/Kentron	
	Sweden	Defence Materiel Administration (FMV), Saab	FMV/Saab	
	UK & Israel	BAE Systems, Remote Group, QinetiQ-AT&E, Stasys, Thales Defence, UAV Engines Ltd, Elbit-Silver Arrow (IL), University of Glasgow, UAVS Trade Association	UAVS	
	USA & Canada	AAI Corp., AeroVations (C), BAI Aerosystems, Sierra Nevada Corp	AUVSI (Alliance)	
CONTRIBUTORS	Australia	Civil Aviation Safety Authority	Netherlands	Royal Netherlands Air Force Royal Netherlands Army
	Belgium	Royal Military Academy	Switzerland	Swiss Air Force
	Canada	Transport Canada (CAA)	UK	Ministry of Defence-DPRG Ministry of Defence-DPA
	France	Ministry of Defence (DGA) Civil Aviation Authorities (DGAC)	USA	Federal Aviation Administration NASA-ERAST USAF Flight Standards Agency
	Japan	Ministry of Transport Ministry of Agriculture-Aviation		



International Co-operation: a Prerequisite for Success



The International UAV Community Is Called On To:

Support this EURO UVS-Instigated International Initiative

Form & Participate in National Working Groups

**Contribute with your Expertise & Experience to
Formulate Multi-National Consensual Opinions**



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Voice of & Forum for the International UAV Community